

JP 03028220

AN 1991-083221 [12] WPIX
DNN N1991-064217 DNC C1991-035388
TI Electrochromic elements for display or optical shield glass - contg. film
of polyphenylene polymer derived from fluorene.
DC A26 A89 P81 U11 U14
PA (IDEK) IDEMITSU KOSAN CO LTD
CYC 1
PI JP 03028220 A 19910206 (199112)*
ADT JP 03028220 A JP 1989-163340 19890626
PRAI JP 1989-163340 19890626
AB JP 03028220 A UPAB: 19930928
Electrochromic element contains an electrochromic layer of a film of poly-
phenylene polymer with 3000 or more wt. average molecular wt. contg. the
repeating unit of formula (I): (R1 = H, or 1-30C alkyl; R2 = 3-30C alkyl)
USE/ADVANTAGE - Electrochromic elements for display, or optical
shield glass.
In an example Fluorene (10g) was dissolved in ether with
addn. of n-butyl lithium (30 ml) soln. and stirred with drops of
n-bromohexane (11g) for 4 hrs. to obtain 9-mono hexylfluorene
(11 g). Repetition of the reaction gave 9,9-dihexylfluorene (13
g). 9,9-dihexylfluorene was dissolved in chloroform and formed
into a film (4 micron) on ITO electrode. An electrolyte soln.
(LiBF₄/acetonitrile) was added between the ITO electrode and pair
electrode (ITO glass) with package of epoxy resin to form EC element.